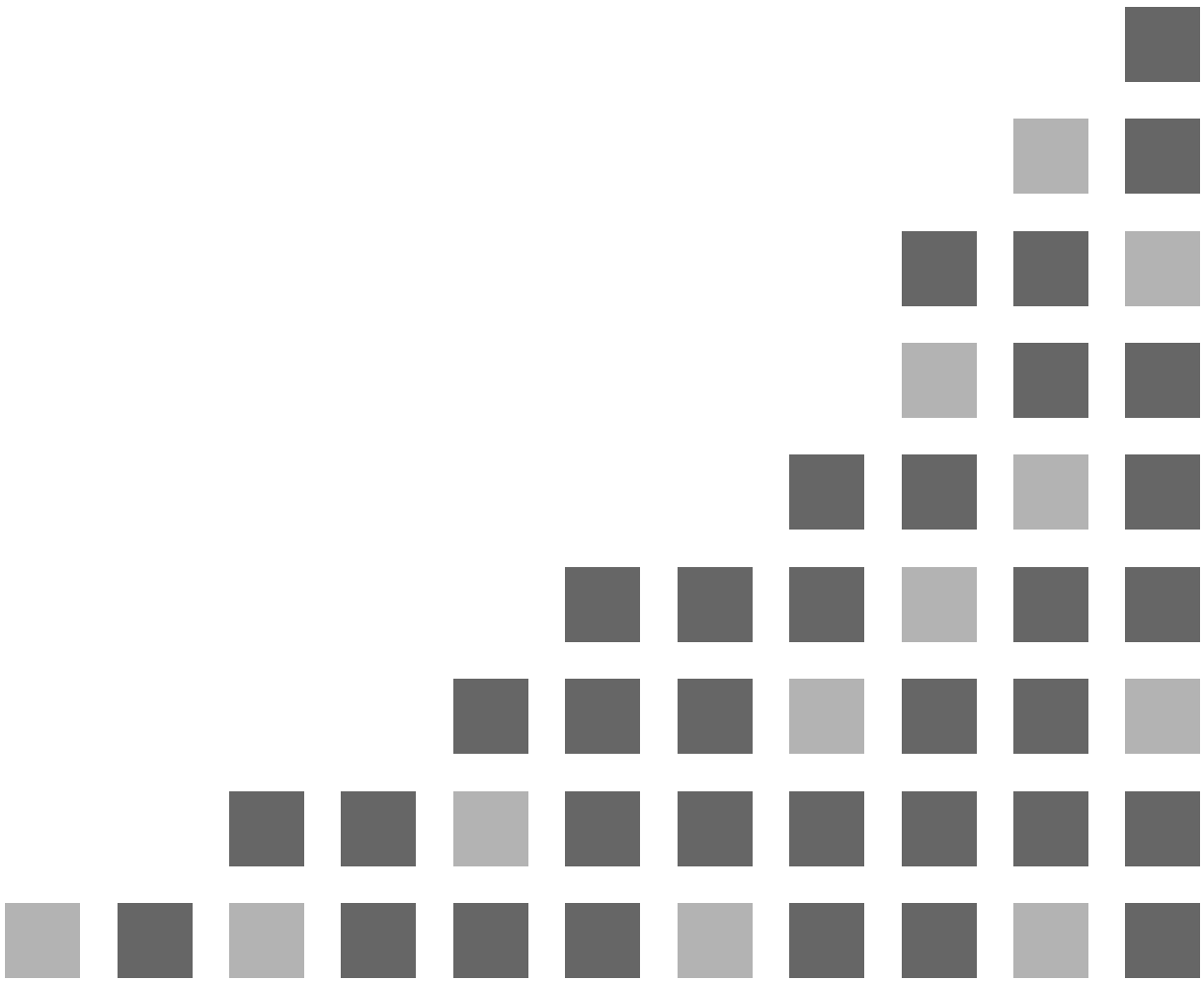
CEV.FR

Panasonic

Operating Instructions

P2 Viewer

(Version 3.5)



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Overview

The P2 viewer is an application program supported by Windows Vista Business, Windows XP Professional and Windows 2000.
You can use the P2 viewer to manipulate clips recorded onto the P2 card on a personal computer.

Major functions:
(1) Clip checking
- Movie files on the P2 card can be played back. (The P2 viewer will play back clips recorded in DV, DVCPRO, DVCPRO50, DVCPROHD or AVC-Intra formats.)
- Contents specific to the P2 card, such as clip information, voice memos and text memos, can be checked.

(2) P2 card copying
- Clips in the P2 card can be copied to recording media, such as another P2 card or a hard disk.

(3) P2 card maintenance
- The P2 card can be initialized.

<Notes>
- Depending on the condition of the personal computer, phenomena such as dropping image frames and disconnecting sound may occur when playing back material.
- DVCPROHD and AVC-Intra format clips cannot be played back on personal computers that do not have a CPU that supports SSE2 instructions such as Pentium M, Pentium 4 or Pentium D.

  Recommended environment to play back DVCPROHD format clips
  CPU : Pentium D (3.2 GHz or greater)
  RAM : 1 GB or greater
  Recommended environment to play back AVC-Intra format clips
  (If AVC-Intra 50)
  CPU: Core2 Duo (2.66 GHz or greater)
  RAM: DDR2-667 1 GB or greater
  (If AVC-Intra 100)
  CPU: Dual CPU configuration dual-core Xeon (3 GHz or greater)
  RAM: DDR2-667 1 GB or greater

Starting/ending the Application

To start the P2 viewer:

For Windows Vista Business or Windows XP Professional ,
select the following: “Start” → “All programs” → “Panasonic P2” → “P2 viewer”.
For Windows 2000,
select the following: “Start” → “Programs” → “Panasonic P2” → “P2 viewer”.

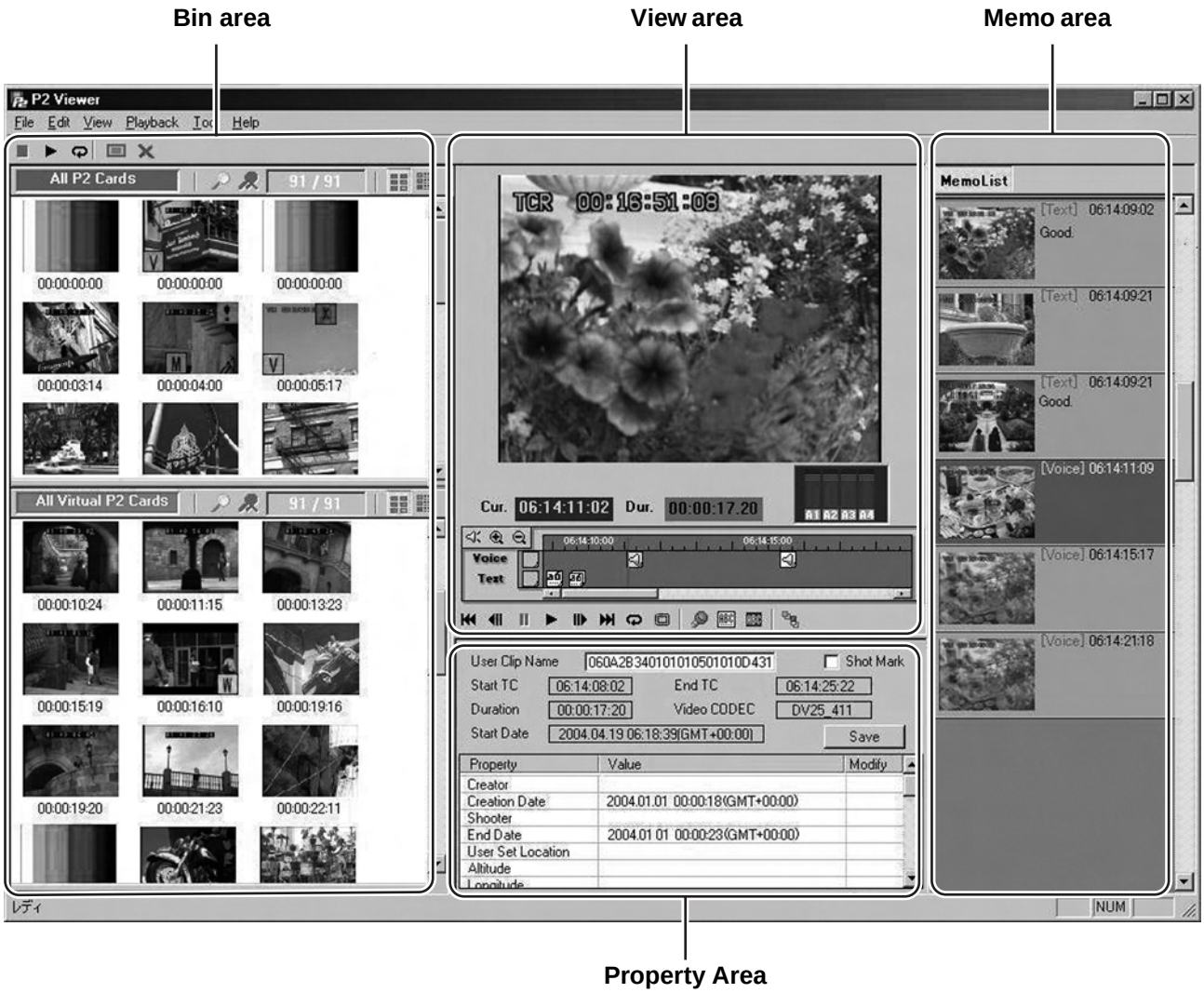
To end the P2 viewer,
- click the ⊠ button in the upper right corner of the main window,

or

- from the “File” menu in the main window, select “Exit”.

Window Configuration

The main window is roughly divided into four areas.



Bin area

Clips recorded on the P2 card are displayed as a list.

The bin area can also be divided into two sections by switching the View menu. This is convenient when copying clips on the P2 card to recording media, such as another P2 card or a hard disk. For details, refer to “2-2 Clip copying” in Major Operations.

View area

The image and outline of the clip selected in the bin area are displayed.

When the clip is double-clicked, the timeline is displayed.

Property area

Information on the clip selected in the bin area is displayed as characters.

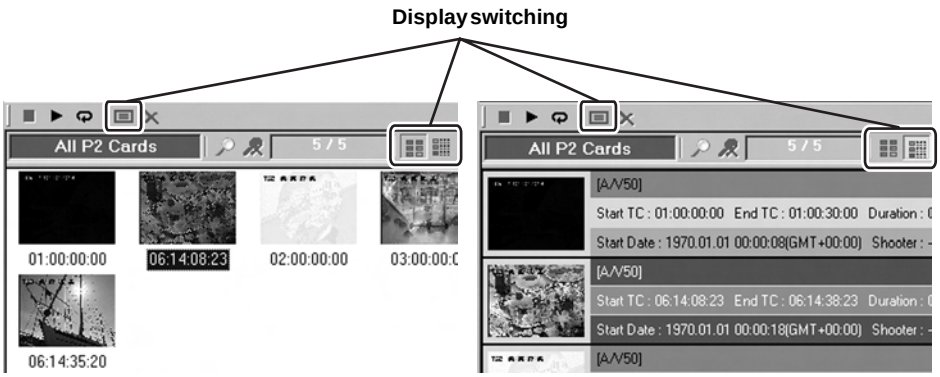
Memo area

When the timeline of the clip is displayed in the view area, memo information recorded in the clip is displayed as a list.

1. Bin Area

1-1 Display mode

Clips recorded onto the P2 card are displayed as a list.
Icon display and Details display can be toggled using toolbar buttons.
They can also be toggled by selecting “Icons View” or “Details View” from the “View” menu.



Icon display **Details mode display**

1-2 Indicators

In some clip icons, indicators are used to display information.

M (Orange):
Displayed if a shot mark is recorded in the clip.

V (Light blue):
Displayed if a voice memo is recorded onto the clip.

W (Greenish yellow):
Displayed if the clip is recorded for 16:9 wide screen format.

! (Pink):
Displayed if part of the clip is missing.
- Selected clip appears to be recorded across multiple P2 cards, but one card is not inserted into a card slot.

X (Red, yellow):
Displayed if the clip is defective.
- For more information, refer to the P2 cam’s operating instructions.

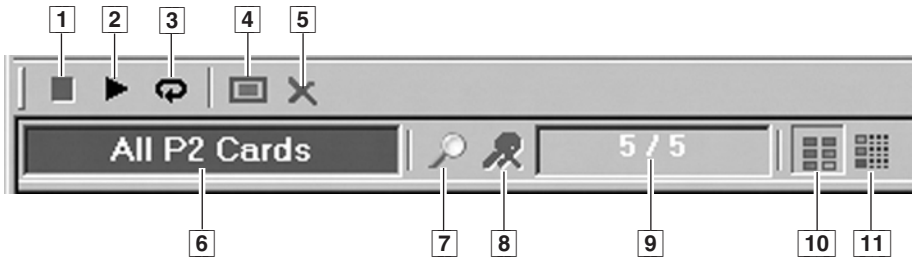
E (Purple):
Displayed if the recorded clip has been edit-copied.
- For more information, refer to the P2 deck’s operating instructions.

HD (Greenish yellow):
Displayed if a DVCPROHD or an AVC-Intra format clip is recorded.

T (Greenish yellow):
Displayed if a text memo is recorded onto the clip.

1-3 Toolbar

The toolbar displayed in the bin area provides the following functions:



1 Stops clip playback.

2 Plays back the selected clip.

3 Toggles clips between loop playback (repeat playback) and normal playback.

4 Toggles the size of the icon displayed in the bin area.

5 Deletes the selected clip.

6 Displays the card slot (drive name) for the P2 card on which the clip displayed in the bin area is recorded, or the path to the virtual P2 card on which the clip displayed in the bin area is recorded.
Select the drive name from the View menu.

7 Open the Filtering panel, then set the conditions for the clip you wish to display in the bin area.
For details, refer to Filtering (Page 10).

8 Cancels filtering.

9 Displays the number of clips satisfying the conditions set in the Filtering panel, together with the total number of clips.
If filtering is not set, the total number of clips is displayed.

10 Clips displayed in the bin area appear as icons.

11 Clips displayed in the bin area are shown in details mode.

2. Property area

The property area displays clip information.
Also, some properties can be changed using the property area.
● After making any changes, click “Save”.

Display	Description	Change
User Clip Name	Name of the clip, entered by the user	Yes
Shot Mark	When this box is checked, an indicator is displayed in the clip icon, indicating that “a shot mark is present”.	Yes
Video CODEC	The recording format of the clip.	No
Start TC	Time code value at the recording start time for the clip	No
End TC	Time code value at the recording end time for the clip	No
Duration	The duration of the clip is displayed.	No
Creator	The name of the person who recorded the clip is displayed.	Yes
Creation Date	The recording date and time for the clip are displayed.	No
Shooter	The name of the camera operator is displayed.	Yes
Start/End Date	The shooting start and end date and time are displayed.	No
User Set Location	The location where shooting took place is displayed.	Yes
Latitude/Longitude/Altitude	The latitude/longitude/altitude of the location where shooting took place are displayed.	Yes
Location Info. Source	The source of information, such as latitude/longitude/altitude, is displayed.	No
Device Manufacturer	The name of the manufacturer of the equipment used for recording is displayed.	No
Device Model Name	The model name of the equipment used for recording is displayed.	No
Device Serial No.	The serial number of the equipment used for recording is displayed.	No
Program Name	These can be recorded and edited as necessary.	Yes
Scene No.		Yes
Take No.		Yes
Reporter		Yes
Purpose		Yes
Object		Yes
Frame Rate	The frame rate of recording images is displayed.	No
VFR ratio	The ratio of the frame rate of playback images to the frame rate of recording images is displayed. Frame rate of playback images/Frame rate of recording images	No
Start UB	The user bits set at the beginning of the clip are displayed.	No
Pulldown	The pulldown method used to convert signals recorded in progressive mode into interlace signals is displayed.	No
Aspect Ratio	The aspect ratio of recording images is displayed.	No
Audio Sampling	The sampling frequency and quantifying bit number of recorded audio are displayed.	No
Last Update Person	The name of the camera operator is displayed. When the clip is edited, the editorís name is displayed.	No
Last Update Date	The shooting date and time are displayed. When the clip is edited, the editing date and time are displayed.	No
Clip Name	ID applied to the clip by the recording equipment is displayed.	No
Global Clip ID	Data indicating the shooting conditions for the clip	No
Drives	Name of the drive for the P2 card onto which the selected clip is recorded is displayed.	No
Absent Cards	If the selected clip is recorded across multiple P2 cards, but one card is not inserted into a card slot, the serial numbers of the absent P2 card are displayed.	No
Proxy Format	The format of the proxy file is displayed.	No
Proxy Video Codec	The recording format of the proxy images is displayed.	No
Proxy Video Frame Rate	The frame rate of the proxy images is displayed.	No
Proxy Video Bit Rate	The bit rate of the proxy images is displayed.	No
Proxy Video Resolution	The pixel size of the proxy images is displayed.	No
Proxy Aspect Ratio	The aspect ratio of the proxy images is displayed.	No
Proxy TC Super	Indicates if there is a time code super for the proxy images.	No
Proxy Audio Codec	The recording format of the proxy audio is displayed.	No
Proxy Audio Bit Rate	The bit rate of the proxy audio is displayed.	No
Proxy Audio Sampling	The sampling rate of the proxy audio is displayed.	No
Proxy Audio Channel	The channel number of the proxy audio is displayed.	No

3. View Area

3-1 Display screen

Image area

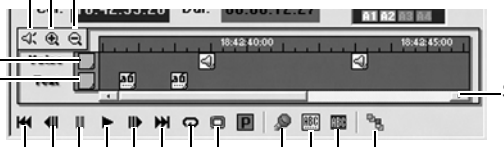
Audio output levels for Channel 1 to Channel 4 are displayed.

When a clip is selected in the bin area, the clipís current time code (current position's time code) is displayed.

When a clip is selected in the bin area, the duration of the complete clip is displayed.

3-2 Timeline

When a clip is double-clicked in the bin area, the clip is displayed in the timeline.



Plays back the voice memo concurrently with the clip.

Enlarges the timeline display.

Reduces the timeline display.

Displays the voice memos for the whole of the clip.

Displays the text memos for the whole of the clip.

Scrolls the timeline.

Moves the frame to be displayed, to set it as the start frame in the clip.

Changes the thumbnail for the clip to the image for the current time code (current position's time code).

Moves the frame to be displayed back by one frame*.

Records a text mark in the frame for the current time code.

Pauses clip playback.

Records a text memo in the frame for the current time code.

Plays back the clip.

Records and stops a voice memo.

Moves the frame to be displayed forward by one frame*.

Enlarges the image area on the display screen.

Moves the frame to be displayed, to set it as the end frame in the clip.

Toggles the clip between loop playback (repeat playback) and normal playback.

Shortcut keys:

Shortcut keys are enabled when no text or buttons are selected in the properties area or the memo area.

- [+]: Moves the frame to be displayed forward by one frame*.
- [–]: Moves the frame to be displayed back by one frame*.
- [Space]: Toggles between playback and stopping of the clip.
- [Shift]+[Space]: Plays back the clip from the head.
- [Ctrl]+[+]: Moves the frame to be displayed forward by 10 frames.
- [Ctrl]+[–]: Moves the frame to be displayed back by 10 frames.

*** : Proxy contents with a recording rate of 192 bits/sec are moved by 2 frames.**

4. Memo Area

When the timeline for the clip is displayed in the view area, memo information recorded in the clip is displayed in a list in the memo area.

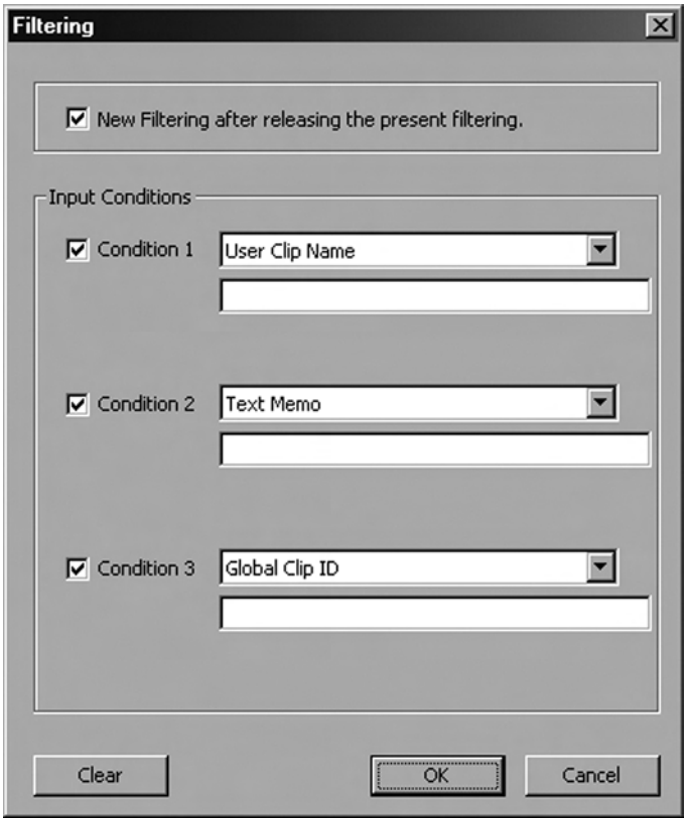
Operations in the memo area:

- Selection of memos
- Deletion of memos
- Playback of voice memos
- Display of text memos
- Change of text memos

Major Operations

1. Filtering

Normally, all clips are displayed in the bin area. Filtering is used to display in the bin area only those clips satisfying certain conditions.
When “Filtering” is selected from the View menu, the following Filtering dialogue box appears.
The Filtering box can also be displayed by clicking the button on the toolbar.
In the Filtering box, when filtering conditions are selected, then “OK” is clicked, only those clips that satisfy the conditions are displayed in the bin area.



Conditions that can be selected:

- User clip name
- Shot mark present/absent
- Start TC
- Duration
- Shooting start date and time
- Text memo
- Latitude
- Longitude
- Global clip ID

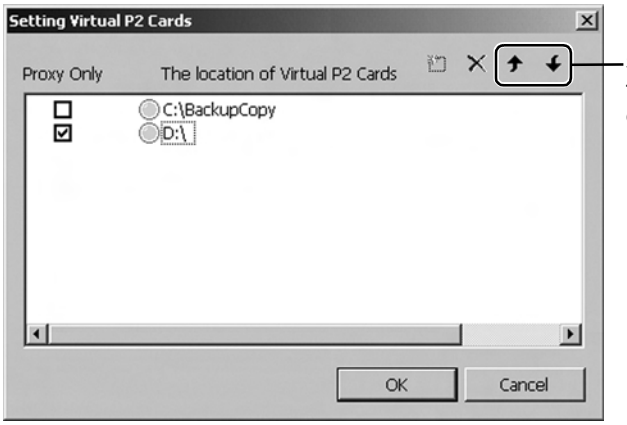
2. Clip copying

Two bins can be displayed in the bin area, to copy clips in the P2 card to recording media, such as another P2 card or a hard disk.
Clips can be copied to

- P2 cards and
- virtual P2 cards.

2-1 Setting virtual P2 cards

The virtual P2 card is a folder that can be created in recording media other than P2 cards, such as hard disks. By treating this folder as a pseudo P2 card for data, clips can also be copied to recording media other than P2 cards.
From the Tools menu, select “Setting Virtual P2 Cards”. Then, the “Setting Virtual P2 Cards” panel opens.
In this panel, virtual P2 cards can be registered/unregistered, created or deleted.



New registration of virtual P2 cards

1. In the “Setting Virtual P2 Cards” window, click the button. The File dialogue box appears.
2. Select the location of the folder in which you want to create a new virtual P2 card, then enter the folder name.
3. Click “OK”.

Now, the new virtual P2 card is created in the selected recording media.

<Note>
When newly registering a virtual P2 card on a network drive, complete network settings on your personal computer before starting registration.

Unregistering of virtual P2 cards

When multiple virtual P2 cards are being used, you have the option to display clips from only the specified virtual P2 card in the bin area.

1. Select the virtual P2 card you wish to unregister, then click the button in the “Setting Virtual P2 Cards” panel.
2. The system asks you whether or not to unregister the virtual P2 card. Click “Yes”.

   <Note> Deletion of virtual P2 cards
   Note that at this time, if “Erase all clips in the folder.” was previously checked, the virtual P2 card will be deleted together with clips in the folder.

Reregistering of virtual P2 cards

1. In the “Setting Virtual P2 Cards” panel, click the button. The File dialogue box appears.
2. Select the unregistered folder, then click “OK”.

The selected virtual P2 card, displaying clips in the folder, is reregistered in the bin area.

2-2 Clip copying

1. Select “Show the primary bin” in the Display menu, then in the opened sub-menu specify the drive for the copy source P2 card, or the copy source virtual P2 card.

2. Select “Show the secondary bin” in the Display menu, then in the opened sub-menu, specify the drive for the copy destination P2 card, or the copy destination virtual P2 card.
The bin area is divided into upper and lower sections, and clips in the drive for the copy destination P2 card, or clips in the copy destination virtual P2 card, are displayed.

3. Select the clip to be copied from the primary bin (upper half of the bin area), then drag and drop it into the secondary bin (lower half of the bin area).

<Notes>

- A clip that exceeds the capacity of the copy destination P2 card or copy destination virtual P2 card cannot be copied.
- If a clip is copied with Windows Explorer etc., a indicator may be displayed in the clip icon. In this case, copying the clip with the P2 Viewer may erase this indicator.

3. Voice Memos

3-1 Playback of voice memos only

When the voice memo icon in the timeline is double-clicked, recorded voice memos can be played back.
Voice memos for the whole of the selected clip are displayed on the left side of the timeline.
Voice memos for frames are displayed in the timeline.
When multiple voice memos are recorded for a single frame, press the arrow keys on the keyboard to select a voice memo and double click the icon to play it.

3-2 Concurrent playback of voice memos and clips

When the voice memo playback button is clicked, the voice memo audio output can be toggled.
With the voice memo playback button previously clicked, voice memos will play back concurrently with the clip.
When multiple voice memos have been recorded for a single frame, only the starting voice memo (representative memo) is played back.

3-3 Recording voice memos

Clicking the desired time code position (in the timeline) followed by the voice memo recording button on the toolbar, allows voice memos to be added to the frame that has the specified time code value.
Voice memos can also be added by clicking the voice memo recording button while clips are being played back.
To record voice memos on the whole of the clip, select on the left side of the timeline and click the voice memo record button .
To record voice memos, use the microphone input of the personal computer.
During recording of voice memos, the voice memo recording button display changes to ■.
Click the voice recording memo button again ■ to end voice memo recording.
The microphone’s input level can be set using the Customize window opened from the “Tools” menu.

3-4 Manipulation of voice memos

Recorded voice memos can be manipulated in the timeline or the memo area.

- Delete
- Copy
- Paste
- Move

4. Text Memos

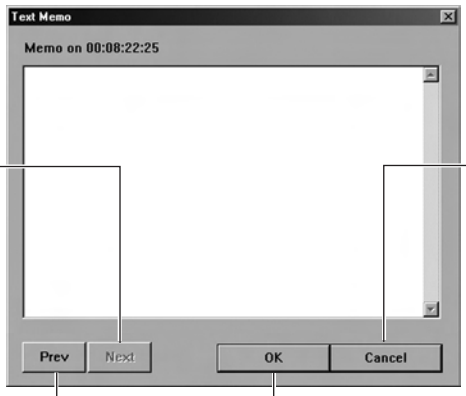
4-1 Display of text memos

When the mouse cursor is moved over the text memo icon in the timeline, a balloon (small window) appears, allowing you to reference the recorded text memos.
Also, when the text memo icon in the timeline is double-clicked, the Text Memo display window appears, allowing you to reference the recorded text memos.
Text memos for the whole of the selected chip are displayed on the left side of the timeline.
Text memos for frames are displayed in the timeline.

4-2 How to record text memos

There are two ways to record text memos: recording arbitrary text memos, or recording text memos registered in advance.

Recording arbitrary text memos
Clicking the desired time code position (in the timeline) followed by the text memo recording button on the toolbar, allows text memos to be recorded in the frame that has the specified time code value.
To record text memos on the whole of the clip, select on the left side of the timeline and click the text memo record button .
When the text memo recording button is clicked, the Text Memo dialogue box opens.
Input the desired text memo, then click OK to enable recording.
When the text memo icon in the timeline is double-clicked, the Text Memo dialogue box opens, displaying all existing text memos. You can also edit their content.



Becomes enabled when multiple text memos are recorded.
Shows the text memo recorded after the one currently displayed.

Discards the set text memo information, then closes the Text Memo box.

Becomes enabled when multiple text memos are recorded.
Shows the text memo recorded before the one currently displayed.

Text Memo box

Records the set text memos in a clip, then closes the Text Memo box.

Recording text memos (text marks) registered in advance
Clicking the desired time code position (in the timeline) followed by the text memo recording button on the toolbar, enables recording of text memos registered in the frame that has the specified time code value.
This operation can also be performed during clip playback.
With this function, text memos can be used as markers.
Text memos to be registered can be set using the Costomize window opened from the “Tools” menu.

4-3 Text memo operations

Recorded text memos can be manipulated in the timeline or the memo area.

- Delete
- Copy
- Paste
- Move

Menus

Menus that can be selected from the Main window are:

- File menu
- Edit menu
- View menu
- Playback menu
- Tools menu
- Help menu

1. File Menu

Exit
Ends the P2 viewer application.

2. Edit Menu

Cut
Cuts selected items.

Copy
Copies selected items.

Paste
Pastes selected items.

Delete
Deletes selected items.

Select All
Selects all items included in the chosen area.

3. View Menu

Icons View
Displays clips in the selected area as icons.

Details View
Displays clips in the selected area in details mode.

Show Large Icons
Switches the size of icons to be displayed to “large”.

Show Small Icons
Switches the size of icons to be displayed to “small”.

Show the primary bin
Displays clips recorded on the selected P2 card, or on the selected virtual card, in the primary bin (full-frame or upper half of the bin area).

Show the secondary bin
Displays clips recorded on the selected P2 card, or on the selected virtual card, in the secondary bin (lower half of the bin area).
When only the primary bin is displayed in the bin area, divides the bin area into two sections and displays the secondary bin.

Hide the secondary bin
When the bin area is divided into two sections and the secondary bin is displayed, does not display the secondary bin and displays only the primary bin in the bin area.

Sort
Sorts clips displayed in the bin area.
You can specify as sort conditions your choice of the following items: user-defined clip name, start TC, duration, shot mark, shooting start date and time.

Ascending
Sorts clips in ascending order.

Descending
Sorts clips in descending order.

Filtering
Open the Filtering window, then set the conditions for the clip you wish to display in the bin area.
For details, refer to “Filtering” (Page 10).

Cancel filtering
Cancels filtering.

Refresh
Reflects up-to-date clip information, in the bin area display.

4. Playback Menu

Play
Plays back the selected clip.

Pause
Pauses clip playback.

Stop
Stops clip playback.

Loop
Toggles clip playback between loop (repeat playback) and normal modes.

Full Screeen Video
Toggles clip playback between full screen size and standard screen size.

Switch to Proxy Contents
Toggles clip playback between proxy and video contents.

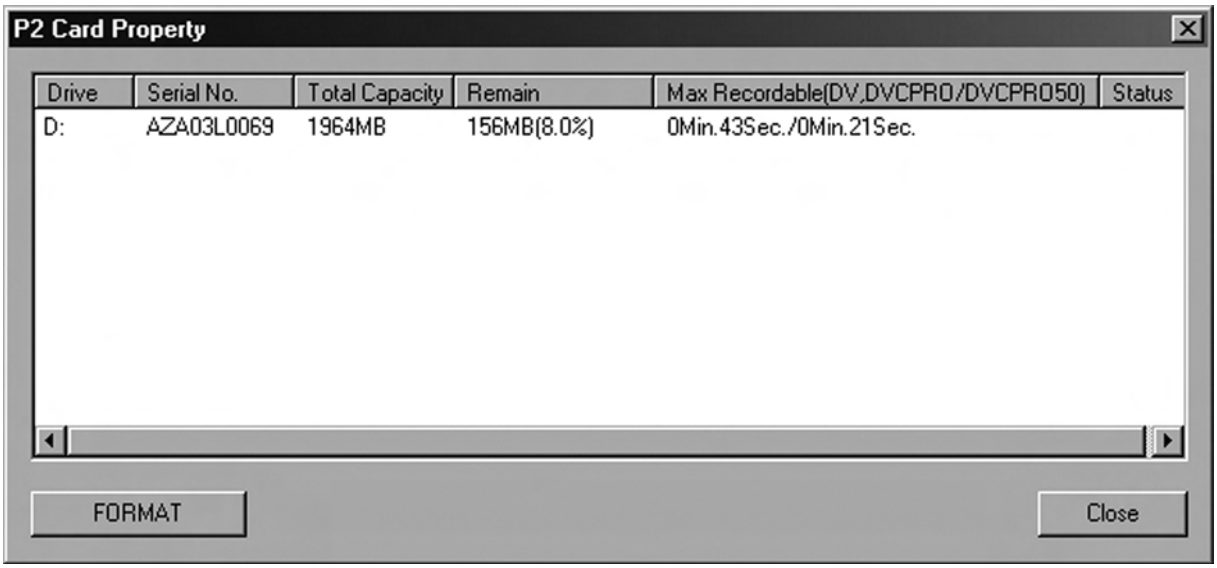
5. Tools Menu

P2 Card Property

Selecting this item opens a panel displaying information on the P2 card inserted into each card slot.
The panel display includes:

- Name of the drive into which the P2 card is inserted
- Serial number of the P2 card
- Status of the P2 card inserted into each card slot
- P2 card's total capacity, remaining capacity and maximum recording time

Selecting a drive containing a P2 card, then clicking "FORMAT" will format the selected P2 card.



Setting virtual P2 cards

Selecting this item opens a panel for setting the virtual P2 card.

Metadata Upload

The window for creating metadata upload files opens. For more information, see "Metadata Upload File Creation."

Customize

The following can be set or changed:

- Audio output channel
- Text contents displayed when the clip in the bin area is displayed as an icon.
- Microphone input level when recording voice memos
- Character strings recorded in text marks
- User name registered as the person who last updated the clip
- Settings when DVCPROHD format clips do not play back smoothly

6. Help Menu

About P2 Viewer

Shows the P2 viewer version number.

Metadata Upload File Creation

This function creates metadata upload files.
Store the metadata upload files created using this function on an SD Memory card, and insert the card into a camera-recorder (hereinafter called a “P2 cam”) that supports saving data on a P2 Card. After clips have been shot using the P2 cam, metadata to be recorded on the clips can be read from the metadata upload files.

- **Creating Metadata Upload Files**
  To store the data on an SD memory card, open the metadata upload window, enter “metadata”, and select “Save on an SD Card” from the “File” menu to store the data on the SD Memory card. Files can be saved on any directory from the “Save As” menu.

- **Changing Metadata Upload Files**
  Existing metadata upload files stored on an SD Memory card can be read and changed by selecting “Open” from the “File” menu. After making changes, update the file by selecting “Overwrite” from the “File” menu.

- **Changing Metadata on Clips using Metadata Upload Files**
  To change metadata on a clip, select the clip and open the Metadata Upload Window. Read the desired metadata upload file by selecting “Open” from the “File” menu in the Metadata Upload Window. Metadata for the clip can be changed by selecting “Change Clip Metadata” from the “Edit” menu.

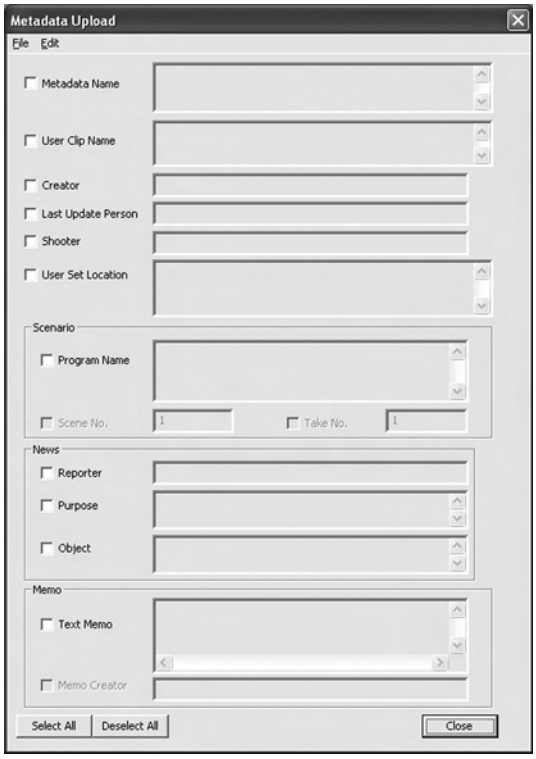
<Note>
Use the P2 cam or the P2 deck to format the SD memory card. For details, refer to the operating instructions for the P2 cam or the P2 deck.

1. Metadata Upload Window

The Metadata Upload Window below is opened by selecting “Metadata Upload” from the “Tools” menu. When this panel is activated after selecting a specific clip, a window opens to display the metadata for the clip.

To enter/update items of metadata, activate the checkbox located to the left of each item. You cannot select items if their checkboxes are inactive.

<Notes>
- Specify the name of the metadata upload file in Metadata Name.
- Once you have set Program Name, you will also be able to set Scene No. and Take No. Similarly, once you have set Text Memo, you will also be able to set Memo Creator.
- You cannot enter line breaks between character strings.



2. Metadata Upload Window Menus

2-1 File Menu

New
Clears all displayed metadata information.

Open
Reads the metadata upload file stored in the file. Only files with a ".p2" extension can be read.

Overwrite
Updates the file by overwriting. This option can only be specified when the file is opened using the "Open" menu.

Save As
The metadata upload file can be stored in any directory on a PC hard-drive. The file will have a ".p2" extension.

Store on an SD Card
When the dialogue box opens, enter the drive name for the SD Memory card. A new file will be stored on the SD Memory card under the filename below, and the card can be read by a P2 device.

(Drive Name):\PRIVATE\MEIGROUP\PAVCN\SBG\P2SD\MTDT∗∗.p2 (∗∗ are two numerals.)

2-2 Edit Menu

Changing Clip Metadata
Applies the contents specified in the Metadata Upload Window to the selected clip, and updates the clip. If more than one clip is selected, all clips will be updated. The contents of text memos are not however changed. The contents specified in the Metadata Upload Window are added to the existing contents.

Proxy

1. Display of Proxy Data

1-1 Indicators

P (Gray):
Displayed when a proxy file is recorded on the clip.

M (Orange):
Displayed if a shot mark is recorded in the clip.

V (Light blue):
Displayed if a voice memo is recorded onto the clip.

W (Greenish yellow):
Displayed if the clip is recorded for 16:9 wide screen format.

! (Pink):
Displayed if part of the clip is missing.
- Selected clip appears to be recorded across multiple P2 cards, but one card is not inserted into a card slot.

X (Red, yellow):
Displayed if the clip is defective.
If this indicator is displayed for proxy data stored on an SD Memory card, copy the proxy data from the corresponding P2 card. For more information, see "4.Copying Clips" (page 19).

T (Greenish yellow):
Displayed if a text memo is recorded onto the clip.

1-2 Property

Properties related to proxy have been added.

1-3 Memo Area

If the clip consists of only the proxy data, the icon in the memo area will not be displayed.

2. Playback

If a clip contains both video and proxy data, these can be toggled and played back by using the Proxy Data Toggle Button in the timeline. If the clip is stored in a Proxy Only Folder, only proxy data will by played back.

2-1 Timeline

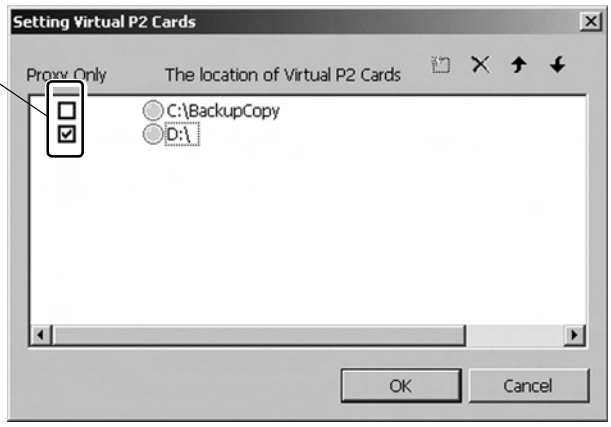
Proxy Data Toggle Button: This button is enabled when the clip contains both video and proxy files. It toggles a file for playback.Click the appropriate checkbox on the left side of the virtual P2 card to specify the Proxy Only option.

When you select proxy only data, this icon is grey and you cannot change the thumbnail.

3. Setting of Proxy Only Folder

The “Proxy Only” folder option can be specified when registering virtual P2 cards. With this option specified, only proxy data are stored, not video.
Be sure to specify the “Proxy Only” option when you register a folder on an SD Memory card.

Click the appropriate checkbox on the left side of the virtual P2 card to specify the Proxy Only option.



<Notes>

- Change the settings of virtual P2 cards if drive names on the PC are altered as a result of connection with additional external equipment.
- Proxy Only Folders are not displayed if you select “Show the primary bin” or “Show the secondary bin” in the Display menu, then select “All Virtual P2 Cards”. To display Proxy Only Folders, select “Show the primary bin” or “Show the secondary bin” in the Display menu, then select the displayed folders.

4. Copying Clips

Proxy data can be copied by dragging and dropping of desired clips into Proxy Only Folders. This operation copies the proxy data only, not the actual video.
It is not possible to copy data from Proxy Only Folders to folders which are not Proxy Only.